

Abstract

Apparatus and methods for winding wire around the poles and partly within the slots of dynamoelectric machine components, such as stators. Some stators are
5 designed with poles having pole tips that extend relatively far in a peripheral direction, perhaps reaching nearly half way across the stator core. When the pole tips reach so far around the stator core and thus leave little room between opposing pole tips, it may
10 be difficult to use winding technologies with needles that need to move between opposing pole tips. Therefore, stators may be divided into segments for the winding of each pole, and then reassembled to form a complete stator. The segments are wound by rotating the segment
15 and a wire guide structure about an axis, while providing wire to the rotating apparatus from a wire source.